

P#109
10/16/2001 #7Serial Number: 09/858,681CRF Processing Date: 10/16/2001
Edited by: JK (STIC stat)
Verified by: BC Changed a file from non-ASCII to ASCII**ENTERED** Changed the margins in cases where the sequence text was wrapped down to the next line. Edited a formal error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____ Added the mandatory heading and subheadings for 'Current Application Data'. Edited the 'Number of Sequences' field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: .. Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII 'garbage' at the beginning/end of lines; secretary initials/filename at end of file;
 page numbers throughout text; other invalid text, such as _____ Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A 'Hard Page Break' code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in amino acid sequences and adjusted the '(A)Length:' field accordingly (error due to a PatentIn bug). Sequences corrected: Other:Seq 2 - corrected amino acid nos.

Examiner: The above corrections must be communicated to the applicant in the first Office Action! DO NOT send a copy of this form.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,681

DATE: 10/16/2001
TIME: 18:00:22

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\10162001\I856681.raw

3 <110> APPLICANT: Behl, Christian
4 Klostermann, Andreas
6 <120> TITLE OF INVENTION: Human semaphorin 6A-1 (SEMA6A-A), a gene involved
7 in neuronal development and regeneration mechanisms
8 during apoptosis, and its use as a potential drug target
10 <130> FILE REFERENCE: 48498-258443
12 <140> CURRENT APPLICATION NUMBER: 09/856,681
13 <141> CURRENT FILING DATE: 2001-05-22
15 <150> PRIOR APPLICATION NUMBER: PCT/EP99/09215
16 <151> PRIOR FILING DATE: 1999-11-26
18 <150> PRIOR APPLICATION NUMBER: 98122441.3
19 <151> PRIOR FILING DATE: 1998-11-26
21 <160> NUMBER OF SEQ ID NOS: 7
23 <170> SOFTWARE: PatentIn Ver. 2.1
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 3093
27 <212> TYPE: DNA
28 <213> ORGANISM: Homo sapiens
30 <220> FEATURE:
31 <221> NAME/KEY: CDS
32 <222> LOCATION: (1)..(3093)
34 <400> SEQUENCE: 1
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37 1 5 10 15
39 ggg gct ggt ttc cca gaa gat tct gag cca atc agt att tcg cat ggc 96
40 Gly Ala Gly Phe Pro Glu Asp Ser Glu Pro Ile Ser Ile Ser His Gly
41 20 25 30
43 aac tat aca aaa cag tat ccg gtg ttt gtg ggc cac aag cca gga cgg 144
44 Asn Tyr Thr Lys Gln Tyr Pro Val Phe Val Gly His Lys Pro Gly Arg
45 35 40 45
47 aac acc aca cag agg cac agg ctg gac atc cag atg att atg atc atg 192
48 Asn Thr Thr Gln Arg His Arg Leu Asp Ile Gln Met Ile Met Ile Met
49 50 55 60
51 aac gga acc ctc tac att gct gct agg gac cat att tat act gtt gat 240
52 Asn Gly Thr Leu Tyr Ile Ala Ala Arg Asp His Ile Tyr Thr Val Asp
53 65 70 75 80
55 ata gac aca tca cac acg gaa att tat tgt agc aaa aaa ctg aca 288
56 Ile Asp Thr Ser His Thr Glu Glu Ile Tyr Cys Ser Lys Lys Leu Thr
57 85 90 95
60 tgg aaa tct aga cag gcc gat gta gac aca tgc aga atg aag gga aaa 336
61 Trp Lys Ser Arg Gln Ala Asp Val Asp Thr Cys Arg Met Lys Gly Lys
62 100 105 110
64 cat aag gat gag tgc cac aac ttt att aaa gtt ctt cta aag aaa aac 384
65 His Lys Asp Glu Cys His Asn Phe Ile Lys Val Leu Leu Lys Lys Asn
66 115 120 125
68 gat gat gca ttg ttt gtc tgt gga act aat gcc ttc aac cct tcc tgc 432

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70	130				135				140								
72	aga	aac	tat	aag	atg	gat	aca	ttg	gaa	cca	ttc	ggg	gat	gaa	ttc	agc	480
73	Arg	Asn	Tyr	Lys	Met	Asp	Thr	Leu	Glu	Pro	Phe	Gly	Asp	Glu	Phe	Ser	
74	145				150				155				160				
76	gga	atg	gcc	aga	tgc	cca	tat	gat	gcc	aaa	cat	gcc	aac	gtt	gca	ctg	528
77	Gly	Met	Ala	Arg	Cys	Pro	Tyr	Asp	Ala	Lys	His	Ala	Asn	Val	Ala	Leu	
78	165				165				170				175				
80	ttt	gca	gat	gga	aaa	cta	tac	tca	gcc	aca	gtg	act	gac	ttc	ctt	gcc	576
81	Phe	Ala	Asp	Gly	Lys	Leu	Tyr	Ser	Ala	Thr	Val	Thr	Asp	Phe	Leu	Ala	
82	180				185				190								
84	att	gac	gca	gtc	att	tac	cgg	agt	ctt	gga	gaa	agc	cct	acc	ctg	cg	624
85	Ile	Asp	Ala	Val	Ile	Tyr	Arg	Ser	Leu	Gly	Glu	Ser	Pro	Thr	Leu	Arg	
86	195				200				205								
88	acc	gtc	aag	cac	cat	tca	aaa	tgg	ttg	aaa	gaa	cca	tac	ttt	gtt	caa	
89	Thr	Val	Lys	His	Asp	Ser	Lys	Trp	Leu	Lys	Glu	Pro	Tyr	Phe	Val	Gln	
90	210				215				220								
92	gcc	gtg	gat	tac	gga	gat	tat	atc	tac	ttc	ttc	ttc	agg	gaa	ata	gca	720
93	Ala	Val	Asp	Tyr	Gly	Asp	Tyr	Ile	Tyr	Phe	Phe	Phe	Arg	Glu	Ile	Ala	
94	225				230				235				240				
96	gtg	gag	tat	aac	acc	atg	gga	aag	gta	gtt	ttc	cca	aga	gtg	gct	cag	768
97	Val	Glu	Tyr	Asn	Thr	Met	Gly	Lys	Val	Val	Phe	Pro	Arg	Val	Ala	Gln	
98	245				250				255								
100	gtt	tgt	aag	aat	gat	atg	gga	gga	tct	caa	aga	gtc	ctg	gag	aaa	cag	816
101	Val	Cys	Lys	Asn	Asp	Met	Gly	Gly	Ser	Gln	Arg	Val	Leu	Glu	Lys	Gln	
102	260				265				270								
104	tgg	acg	tcg	ttc	ctg	aag	gca	cg	cgc	ttg	aac	tgc	tca	gtt	cct	gga	864
105	Trp	Thr	Ser	Phe	Leu	Lys	Ala	Arg	Leu	Asn	Cys	Ser	Val	Pro	Gly	Asp	
106	275				280				285								
108	tct	cat	ttt	tat	ttc	aac	att	ctc	cag	gca	gtt	aca	gat	gtg	att	cgt	912
109	Ser	His	Phe	Tyr	Phe	Asn	Ile	Leu	Gln	Ala	Val	Thr	Asp	Val	Ile	Arg	
110	290				295				300								
112	atc	aac	ggg	cgt	gat	gtt	gtc	ctg	gca	acg	ttt	tct	aca	cct	tat	aac	960
113	Ile	Asn	Gly	Arg	Asp	Val	Val	Leu	Ala	Thr	Phe	Ser	Thr	Pro	Tyr	Asn	
114	305				310				315				320				
116	agc	atc	cct	ggg	tct	gca	gtc	tgt	gcc	tat	gac	atg	ttt	cct	gat	ttc	1008
117	Ser	Ile	Pro	Gly	Ser	Ala	Val	Cys	Ala	Tyr	Asp	Met	Leu	Asp	Ile	Ala	
118	325				330				335								
120	agt	gtt	ttt	act	ggg	aga	ttc	aag	gaa	cag	aag	tct	cct	gat	tcc	acc	1056
121	Ser	Val	Phe	Thr	Gly	Arg	Phe	Lys	Glu	Gln	Lys	Ser	Pro	Asp	Ser	Thr	
122	340				345				350				350				
124	tgg	aca	cca	gtt	cct	gat	gaa	cga	gtt	cct	aag	ccc	agg	cca	ggt	tgc	1104
125	Trp	Thr	Pro	Val	Pro	Asp	Glu	Arg	Val	Pro	Lys	Pro	Arg	Pro	Gly	Cys	
126	355				360				365								
128	tgt	gtc	ggc	tca	tcc	tcc	tta	gaa	aga	tat	gca	acc	tcc	aat	gag	ttc	1152
129	Cys	Ala	Gly	Ser	Ser	Ser	Leu	Glu	Arg	Tyr	Ala	Thr	Ser	Asn	Glu	Phe	
130	370				375				380								
132	cct	gat	gat	acc	ctg	aac	ttc	atc	aag	acg	cac	ccg	ctc	atg	gat	gag	1200
133	Pro	Asp	Asp	Thr	Leu	Asn	Phe	Ile	Lys	Thr	His	Pro	Leu	Met	Asp	Glu	

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137	Ala	Val	Pro	Ser	Ile	Phe	Asn	Arg	Pro	Trp	Phe	Leu	Arg	Thr	Met	Val	
138	405								410					415		1296	
140	aga	tac	cgc	ctt	acc	aaa	att	gca	gtg	gac	aca	gct	gct	ggg	cca	tat	
141	Arg	Tyr	Arg	Leu	Thr	Lys	Ile	Ala	Val	Asp	Thr	Ala	Ala	Gly	Pro	Tyr	
142	420								425					430		1344	
144	cag	aat	cac	act	gtg	gtt	ttt	ctg	gga	tca	gag	aag	gga	atc	atc	ttg	
145	Gln	Asn	His	Thr	Val	Val	Phe	Leu	Gly	Ser	Glu	Lys	Gly	Ile	Ile	Leu	
146	435								440					445			
148	aag	ttt	ttg	gcc	aga	ata	gga	aat	agt	gtt	ttt	cta	aat	gac	agc	ctt	
149	Lys	Phe	Leu	Ala	Arg	Ile	Gly	Asn	Ser	Gly	Phe	Leu	Asn	Asp	Ser	Leu	
150	450								455					460		1392	
152	ttc	ctg	gag	gag	atg	agt	gtt	tac	aac	tct	gaa	aaa	tgc	agc	tat	gat	
153	Phe	Leu	Glu	Glu	Met	Ser	Val	Tyr	Asn	Ser	Glu	Lys	Cys	Ser	Tyr	Asp	
154	465								470					475		480	
156	gga	gtc	gaa	gac	aaa	agg	atc	atg	ggc	atg	cag	ctg	gac	aga	gca	agc	
157	Gly	Val	Glu	Asp	Lys	Arg	Ile	Met	Gly	Met	Gln	Leu	Asp	Arg	Ala	Ser	
158	485								490					495		1488	
160	agc	tct	ctg	tat	gtt	gcf	ttc	tct	acc	tgt	gtg	ata	aag	gtt	ccc	ctt	
161	Ser	Ser	Leu	Tyr	Val	Ala	Phe	Ser	Thr	Cys	Val	Ile	Lys	Val	Pro	Leu	
162	500								505					510		1584	
164	ggc	cgg	tgt	gaa	cga	cat	ggg	aag	tgt	aaa	aaa	acc	tgt	att	gcc	tcc	
165	Gly	Arg	Cys	Glu	Arg	His	Gly	Lys	Cys	Lys	Lys	Thr	Cys	Ile	Ala	Ser	
166	515								520					525			
168	aga	gac	cca	tat	tgt	gga	tgg	ata	aag	gaa	ggt	ggt	gcc	tgc	agc	cat	
169	Arg	Asp	Pro	Tyr	Cys	Gly	Trp	Ile	Lys	Glu	Gly	Gly	Ala	Cys	Ser	His	
170	530								535					540			
172	tta	tca	ccc	aac	agc	aga	ctg	act	ttt	gag	cag	gac	ata	gag	cgt	ggc	
173	Leu	Ser	Pro	Asn	Ser	Arg	Leu	Thr	Phe	Glu	Gln	Asp	Ile	Glu	Arg	Gly	
174	545								550					555		560	
177	aat	aca	gat	ggt	ctg	ggg	gac	tgt	cac	aat	tcc	ttt	gtg	gca	ctg	aat	
178	Asn	Thr	Asp	Gly	Leu	Gly	Asp	Cys	His	Asn	Ser	Phe	Val	Ala	Leu	Asn	
179	565								570					575			
181	ggg	cat	tcc	agt	tcc	ctc	ttg	ccc	agc	aca	acc	aca	tca	gat	tcg	acg	
182	Gly	His	Ser	Ser	Leu	Leu	Pro	Ser	Thr	Thr	Thr	Thr	Ser	Asp	Ser	Thr	
183	580								585					590			
185	gct	caa	gag	ggg	tat	gag	tct	agg	gga	gga	atg	ctg	gac	tgg	aag	cat	
186	Ala	Gln	Glu	Gly	Tyr	Glu	Ser	Arg	Gly	Gly	Met	Leu	Asp	Trp	Lys	His	
187	595								600					605			
189	ctg	ctt	gac	tca	cct	gac	agc	aca	gac	cct	ttg	ggg	gca	gtg	tct	tcc	
190	Leu	Leu	Asp	Ser	Pro	Asp	Ser	Thr	Asp	Pro	Leu	Gly	Ala	Val	Ser	Ser	
191	610								615					620			
193	cat	aat	cac	caa	gac	aag	gga	gtg	att	cg	gaa	agt	tac	ctc	aaa		
194	His	Asn	His	Gln	Asp	Lys	Lys	Gly	Val	Ile	Arg	Glu	Ser	Tyr	Leu	Lys	
195	625								630					635		640	
197	ggc	cac	gac	cag	ctg	gtt	ccc	gtc	acc	ctc	ttg	gcc	att	gca	gtc	atc	
198	Gly	His	Asp	Gln	Leu	Val	Pro	Val	Thr	Leu	Leu	Ala	Ile	Ala	Val	Ile	
199	645								650					655			

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PATENT APPLICATION: US/09/856,681

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201	ctg	gct	tcc	gtc	atg	ggg	gcc	gtc	tcc	ggc	atc	acc	gtc	tac	tgc	2016	
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203					660				665					670			
205	gtc	tgt	gat	cat	cg	cg	aaa	gac	gtg	gct	gtg	gtg	cag	cg	aag	gag	2064
206	Val	Cys	Asp	His	Arg	Arg	Lys	Asp	Val	Ala	Val	Val	Gln	Arg	Lys	Glu	
207					675				680				685				
209	aag	gag	ctc	acc	cac	tcg	cg	gg	gc	tcc	atg	agc	agc	gtc	acc	aag	2112
210	Lys	Glu	Leu	Thr	His	Ser	Arg	Arg	Gly	Ser	Met	Ser	Ser	Val	Thr	Lys	
211					690				695			700					
213	ctc	agc	ggc	ctc	ttt	ggg	gac	act	caa	tcc	aaa	gac	cca	aag	ccg	gag	2160
214	Leu	Ser	Gly	Leu	Phe	Gly	Asp	Thr	Gln	Ser	Lys	Asp	Pro	Lys	Pro	Glu	
215	705					710				715			720				
217	gcc	atc	ctc	acg	cca	ctc	atg	cac	aa	gg	aag	ctc	gcc	act	ccc	gg	2208
218	Ala	Ile	Leu	Thr	Pro	Leu	Met	His	Asn	Gly	Lys	Leu	Ala	Thr	Pro	Gly	
219					725				730			735					
221	aac	acg	ggc	aag	atg	ctc	att	aaa	gca	gac	cag	cac	ctg	gac	ctg	2256	
222	Asn	Thr	Ala	Lys	Met	Leu	Ile	Lys	Ala	Asp	Gln	His	His	Leu	Asp	Leu	
223					740				745			750					
225	acg	ggc	ctc	ccc	acc	cca	gag	tca	acc	cca	acg	ctg	cag	cag	aag	cg	2304
226	Thr	Ala	Leu	Pro	Thr	Pro	Glu	Ser	Thr	Pro	Thr	Leu	Gln	Gln	Lys	Arg	
227					755				760			765					
229	aag	ccc	agc	cg	gg	agc	cg	gag	tgg	gag	agg	aac	cag	aac	ctc	atc	2352
230	Lys	Pro	Ser	Arg	Gly	Ser	Arg	Glu	Trp	Glu	Arg	Asn	Gln	Asn	Leu	Ile	
231					770				775			780					
233	aat	gcc	tgc	aca	aag	gac	atg	ccc	atg	gg	tcc	cct	gtg	att	ccc	2400	
234	Asn	Ala	Cys	Thr	Lys	Asp	Met	Pro	Pro	Met	Gly	Ser	Pro	Val	Ile	Pro	
235					785				790			795		800			
237	acg	gac	ctg	ccc	ctg	cg	gg	cc	cc	agc	cac	atc	ccc	agc	gt	gt	2448
238	Thr	Asp	Leu	Pro	Leu	Arg	Ala	Ser	Pro	Ser	His	Ile	Pro	Ser	Val	Val	
239					805				810			815					
241	gtc	ctg	ccc	atc	acg	cag	gg	tac	cag	cat	gag	tac	gt	gac	cg	2496	
242	Val	Leu	Pro	Ile	Thr	Gln	Gln	Gly	Tyr	Gln	His	Glu	Tyr	Val	Asp	Gln	
243					820				825			830					
245	ccc	aaa	atg	agc	gag	gt	gg	cc	cag	atg	g	cg	cag	gg	cc	2544	
246	Pro	Lys	Met	Ser	Glu	Val	Ala	Gln	Met	Ala	Leu	Glu	Asp	Gln	Ala	Ala	
247					835				840			845					
249	aca	ctg	gag	tat	aag	acc	atc	aag	gaa	cat	ctc	agc	agc	aag	agt	ccc	2592
250	Thr	Leu	Glu	Tyr	Lys	Thr	Ile	Lys	Glu	His	Leu	Ser	Ser	Lys	Ser	Pro	
251					850				855			860					
253	aac	cat	ggg	gt	aa	c	tt	gt	gag	aa	ctg	gac	agc	ctg	ccc	ccc	2640
254	Asn	His	Gly	Val	Asn	Leu	Val	Glu	Asn	Leu	Asp	Ser	Leu	Pro	Pro	Lys	
255					865				870			875		880			
257	gtt	cca	cag	cg	gag	gg	cc	cc	gg	gg	gg	cc	tcc	ctg	tct	2688	
258	Val	Pro	Gln	Arg	Glu	Ala	Ser	Leu	Gly	Pro	Pro	Gly	Ala	Ser	Leu	Ser	
259					885				890			895					
261	cag	acc	gg	t	ta	agc	aag	cg	tg	gaa	atg	cac	cac	tcc	tct	tcc	2736
262	Gln	Thr	Gly	Leu	Ser	Lys	Arg	Leu	Glu	Met	His	His	Ser	Ser	Tyr		
263					900				905			910					
265	ggg	gtt	gac	tat	aag	agg	agc	tac	ccc	acg	aac	tcg	ctc	acg	aga	agc	2784

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266 Gly Val Asp Tyr Lys Arg Ser Tyr Pro Thr Asn Ser Leu Thr Arg Ser
267 915 920 925 2832
269 cac cag gcc acc act ctc aaa aga aac aac act aac tcc tcc aat tcc
270 His Gln Ala Thr Thr Leu Lys Arg Asn Asn Thr Asn Ser Ser Asn Ser
271 930 935 940 2880
273 tct cac ctc tcc aga aac cag agc ttt ggc agg gga gac aac ccg ccg
274 Ser His Leu Ser Arg Asn Gln Ser Phe Gly Arg Gly Asp Asn Pro Pro
275 945 950 955 960 2928
277 ccc gcc ccg cag agg gtg gac tcc atc cag gtg cac agc tcc cag cca
278 Pro Ala Pro Gln Arg Val Asp Ser Ile Gln Val His Ser Ser Gln Pro
279 965 970 975 2976
281 tct ggc cag gcc gtg act gtc tcg agg cag ccc agc ctc aac gcc tac
282 Ser Gly Gln Ala Val Thr Val Ser Arg Gln Pro Ser Leu Asn Ala Tyr
283 980 985 990 3024
285 aac tca ctg aca agg tcg ggg ctg aag cgt acg ccc tcg cta aag ccg
286 Asn Ser Leu Thr Arg Ser Gly Leu Lys Arg Thr Pro Ser Leu Lys Pro
287 995 1000 1005 3072
289 gac gta ccc ccc aaa cca tcc ttt gct ccc ctt tcc aca tcc atg aag
290 Asp Val Pro Pro Lys Pro Ser Phe Ala Pro Leu Ser Thr Ser Met Lys
291 1010 1015 1020 3093
294 ccc aat gat gcg tgt aca taa
295 Pro Asn Asp Ala Cys Thr
296 1025 1030
299 <210> SEQ ID NO: 2
300 <211> LENGTH: 1030
301 <212> TYPE: PRT
302 <213> ORGANISM: Homo sapiens
304 <400> SEQUENCE: 2
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306 1 5 10 15
308 Gly Ala Gly Phe Pro Glu Asp Ser Glu Pro Ile Ser Ile Ser His Gly
309 20 25 30
311 Asn Tyr Thr Lys Gln Tyr Pro Val Phe Val Gly His Lys Pro Gly Arg
312 35 40 45
314 Asn Thr Thr Gln Arg His Arg Leu Asp Ile Gln Met Ile Met Ile Met
315 50 55 60
317 Asn Gly Thr Leu Tyr Ile Ala Ala Arg Asp His Ile Tyr Thr Val Asp
318 65 70 75 80
320 Ile Asp Thr Ser His Thr Glu Glu Ile Tyr Cys Ser Lys Lys Leu Thr
321 85 90 95
323 Trp Lys Ser Arg Gln Ala Asp Val Asp Thr Cys Arg Met Lys Gly Lys
324 100 105 110
326 His Lys Asp Glu Cys His Asn Phe Ile Lys Val Leu Leu Lys Lys Asn
327 115 120 125
329 Asp Asp Ala Leu Phe Val Cys Gly Thr Asn Ala Phe Asn Pro Ser Cys
330 130 135 140
332 Arg Asn Tyr Lys Met Asp Thr Leu Glu Pro Phe Gly Asp Glu Phe Ser
333 145 150 155 160
335 Gly Met Ala Arg Cys Pro Tyr Asp Ala Lys His Ala Asn Val Ala Leu

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